

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,934,511 B1  
APPLICATION NO. : 09/694225  
DATED : August 23, 2005  
INVENTOR(S) : Breck W. Lovinggood, Mano D. Judd, and William P. Kuiper

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, lines 3-4 read "CROSS-REFERENCE TO RELATED APPLICATION" and should read -- CROSS-REFERENCE TO RELATED APPLICATIONS --.

Column 1, line 48 reads "...manufactures are under constant pressure from customers..." and should read -- ...manufacturers are under constant pressure from customers ... --.

Column 2, lines 39-40 read "...plurality of antenna elements, and said repeater electronics including an interference cancellation circuit for..." and should read -- ...plurality of antenna elements, and said repeater electronics including an interference cancellation circuit for ... --.

Column 3, line 13 reads "FIG. 14 is a block diagram of a repeater system/similar to..." and should read -- FIG. 14 is a block diagram of a repeater system similar to... --.

Column 4, line 9 reads "...repeater electronics 25 which is mounted elsewhere on the..." and should read -- ...repeater electronics 25 which are mounted elsewhere on the... --.

Column 4, line 63 reads "...approach required that the filters 160, 162, provide all of the..." and should read -- ...approach required that the filters 160, 162 provide all of the ... --.

Column 6, lines 66-67 read "...angles and elevations can then be used to create with desired beam. In FIG. 20, the antennas 600 in an N by N (e.g., 3 by..." and should read -- ...angles and elevations can then be used to create the desired beam. In FIG. 20, the antennas 600 in an N by N (e.g., 3 by... --.

Column 7, line 20 reads "... 122a may mount a plurality / elements 600 which may be ..." and should read -- ...122a may mount a plurality antenna elements 600 which may be ... --.

Column 7, lines 23-24 read "The relatively thin housing 152a may between the two faces or surfaces 122a and 132a may house the electronics." and should read -- The relatively thin housing 152a between the two faces or surfaces 122a and 132a may house the electronics. --.

Column 7, line 41 reads "...FIG. 23, each of the surfaces 122d and 132d may of antenna..." and should read -- ... FIG. 23, each of the surfaces 122d and 132d of antenna... --.

Column 8, line 62 reads "...element, is simply a patch that forces more energy in the..." and should read -- ...element is simply a patch that forces more energy in the... --.

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Column 9, line 30 reads "...between the patches on opposites sides, and allows one to..." and should read --...between the patches on opposite sides, and allows one to... --.

Column 9, line 58 reads "...coupled to one terminal a summer 283. All of the lines 288..." and should read -- ...coupled to one terminal of summer 283. All of the lines 288... --.

Column 10, line 21 reads "...canceller to provide additional gain and phase margin, is..." and should read -- ...canceller to provide additional gain and phase margin and is... --.  
Column 13, line 31 reads "...5, the function of the filters 200, 202 is incorporate in the..." and should read -- ...5, the function of the filters 200, 202 is incorporated in the... --.

Column 14, CLAIM 7, line 42 reads "...patch antenila elements comprises a reduced surface wave..." and should read --...patch antenna elements comprises a reduced surface wave...--.

Column 14, CLAIM 10, line 60 reads "...ahtenna and wherein said repeater electronics further include..." and should read --...antenna and wherein said repeater electronics further include...--.

Column 15, CLAIM 17, line 36 reads "...line delay, coupled respectively with the antennas elements..." and should read -- ... line delay, coupled respectively with the antenna elements... --.

Column 15, CLAIM 19, line 43 reads "...antenna and said null antenna each comprise a fiat panel and..." and should read -- ...antenna and said null antenna each comprise a flat panel and... --.

Column 16, CLAIM 24, line 4 reads "...thereon each of said antennas defining a peripheral edge..." and should read -- ...thereon, each of said antennas defining a peripheral edge... --.

Column 16, CLAIMS 28 & 29, lines 16-25: Upon review of the issued patent and the claims therein, it was discovered that the claims 28-29 are duplicative in language to issued claims 22-23 and should have been deleted in prosecution. To address this oversight, please delete issued claims 28-29 in this patent as duplicative. The subject matter of those claims, as reflected in the remaining claims 22-23, is not disclaimed, and claims 22-23 should remain intact as issued.

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Column 16, CLAIM 30, line 27 reads "...antenna and said null antenna each comprise a relatively fiat..." and should read -- ... antenna and said null antenna each comprise a relatively flat... --.

Column 16, CLAIM 33, line 48 reads "...in both an uplink path and a downlink antenna." and should read -- ...in both an uplink path and a downlink path. --.

Column 16, CLAIM 35, line 55 reads "...transmit and receive repeater arrays." and should read -- ...transmit and receive antenna arrays. --.

Column 16, CLAIM 36, line 57 reads "...said donor and null antenna comprise an antenna array..." and should read -- ...said donor and null antenna comprises an antenna array...--.

Column 16, CLAIM 36, lines 58-59 read "...comprising a plurality of patch antenna elements arranged in a an M by N array." and should read -- comprising a plurality of patch antenna elements arranged in an M by N array. --.

Column 17, CLAIM 42, line 22 reads "...antenna array, for controller for controlling operation of said..." and should read -- ... antenna array, a controller for controlling operation of said... --.

Column 17, CLAIM 43, line 30 reads "...and coupled respectively with the antennas elements of the..." and should read -- ...and coupled respectively with the antenna elements of the... --.

Column 18, CLAIM 53, line 19 reads "...an L/Q modulator coupled to said attenuator and to said..." and should read -- ... an I/Q modulator coupled to said attenuator and to said... --.

Column 18, CLAIM 56, line 32 reads "...bent material surround each said antenna face." and should read -- ...bent material surrounds each said antenna face. --.

Column 19, CLAIM 63, line 1 reads "...respectively with the antennas elements of the donor..." and should read -- ...respectively with the antenna elements of the donor... --.

Column 19, CLAIM 68, line 16 reads "...viding setup, communication and monitoring functions for..." and should read -- ...viding setup, communications and monitoring functions for... --.

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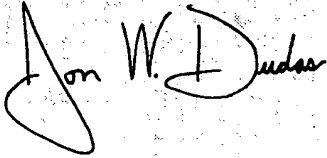
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19, CLAIM 79, line 66 reads "...put signal sample and JIQ modulating the attenuating signal..." and should read -- ...put signal sample and I/Q modulating the attenuating signal... --.

Column 20, CLAIM 80, line 3 reads "...receiving said radio frequency signal to one of a donor..." and should read -- ...receiving said radio frequency signal at one of a donor... --.

Signed and Sealed this

Fourteenth Day of November, 2006

A handwritten signature in black ink, reading "Jon W. Dudas", is written over a rectangular grid of small dots.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*